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Cellular respiration graphic organizer science is real pdf download pdf

Students learn about cellular respiration by using a graphic organizer that shows how cells turn glucose into energy. The organizer includes a word bank to help students understand the flow of ATP and NADH in the process, as well as where each step happens. Cellular respiration is like a series of chemical reactions that take place inside all living things. It's what helps us get energy from the food we eat. This process has two main parts: glycolysis and the Krebs cycle. Glycolysis happens first and takes place in the cytoplasm of the cell, where glucose gets broken down into pyruvate and ATP is made. The Krebs cycle comes next, happening in the mitochondria, where pyruvate gets turned into carbon dioxide and energy for making ATP. Cellular respiration is very important because it gives us the energy we need to live. It's also pretty efficient since it can make a lot of ATP from just a small amount of glucose. This graphic organizer starts with glycolysis and explains how NADH and ATP move into the Krebs cycle, where most of the ATP is made during respiration. The overall reaction helps students see the big picture of cellular respiration. Teachers have used this worksheet in their classes to help students understand the process better. It's often given after lectures or videos about cellular respiration to sum up all the information into one clear picture. Introducing a growing collection of Biology Graphic Organizers, available as a discounted bundle! This resource includes printable PDF versions, Google Slides versions, and answer keys. Perfect for both students and teachers, graphic organizers are an effective teaching and learning tool. Other biology resources are also available in a mega bundle, with over 30% off the original price. This growing collection began with 50 resources and will eventually reach 400! If you purchase it now, you'll receive all future additions for free! Additionally, the Cell Energy Unit Plan is available, covering photosynthesis and cellular respiration. This comprehensive unit plan includes everything needed to teach a cell energy unit at a discounted price. To help teachers ignite their students' curiosity, three cell respiration activities are included: a graphic organizer, concept map, and crossword puzzle. These activities can be used in any cell respiration unit and include an answer key. This resource is part of the comprehensive Cell Energy Unit Plan and Pacing Guide, available for free. The bundle includes: * Cellular Respiration Graphic Organizer (PDF & Google Slides) * Cellular Respiration Concept Map (PDF & Google Slides) * Cell Respiration Crossword Puzzle (PDF & Google Slides) * Answer Key (PDF) This resource is also available in discount-growing bundles, including the Cell Energy Discount Growing Bundle and the Cell Energy Full Unit Plan. The bundle covers various topics, including chemical equations for cellular respiration, glycolysis, anaerobic respiration, aerobic respiration, Krebs cycle, electron transport chain, ATP, and more. Cell Energy Assessments - Photosynthesis & Respiration This section contains various editable assessments, resources, and activities related to cellular respiration and photosynthesis. **Cellular Respiration Resources** * Editable assessments on cell energy * A growing discount bundle for cell respiration * An Amoeba Sisters video handout * A cell respiration webquest * Reading comprehension and questions on cell respiration * Boom cards for cellular respiration * A low-prep anaerobic fermentation lab * PowerPoint, notes, questions, and Kahoot resources **Photosynthesis Resources** * A photosynthesis bundle with a growing discount * Graphic organizers, concept maps, labeling diagrams, and crosswords on photosynthesis * Reading comprehension and activities on photosynthesis * An Amoeba Sisters video handout * Boom cards for photosynthesis * A webquest on photosynthesis **Additional Resources** * Biology graphic organizers with a growing discount bundle * Graphic organizers, concept maps, labeling diagrams, and crosswords on macromolecules * Mitosis graphic organizer and quiz * Cell transport graphic organizer, concept map, osmosis practice, and crossword * Meiosis graphic organizer and activities (digital and printable) * Microscope graphic organizers * Enzymes graphic organizer * Evolution graphic organizer * Ecological succession graphic organizer **Freebies** * A cell energy unit plan and pacing guide (free) * Cells unit plan and teacher's guide (free) * Cell transport unit plan and guide (free) * Cell transport vocabulary cards with definitions and pictures (free) * Characteristics of life unit plan and guide (free) * Biogeochemical cycles research booklet project (free) * Macromolecules unit plan and teachers guide (free) * Mitosis and the cell cycle unit plan and teacher's guide (free) * Nature of science Amoeba Sisters video handout (free) **Copyright Information** This product is copyrighted by Science Is Real. It is for personal use only and cannot be shared or copied without permission. Looking forward to seeing everyone at the meeting tomorow and discussin our strategies for accomodate yearly staff changes and develop a model that describes how food is rearranged through chemical reactions, releasing energy and supporting growth in an organism. By purchasing this product, you acknowledge that you have read and understood the Terms of Use regarding restrictions on sharing or redistribution of the resource. Contact me at scienceisrealeducation@gmail.com for transferable license quote. This model should illustrate how molecules are broken apart and recombined to release energy, while also showing that cellular respiration is a process where food molecules and oxygen are broken down, resulting in a net gain of energy.